



NATIONAL SCIENCE CENTER
KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY

EU FRAMEWORK PROGRAMME PIC: 969818320

INSTITUTE OF PLASMA PHYSICS IPP NSC KIPT

CONTACT

ADDRESS: 1 Akademichna str., 61108, Kharkiv,
Ukraine

Dr. Igor GARKUSHA

E-MAIL: garkusha@ipp.kharkov.ua

www.ipp.kipt.kharkov.ua/index_en.html

TEL: +38 (057) 335 - 61 - 22

FEW WORDS ABOUT IPP

IPP is a research institute of the NSC KIPT that is the largest Ukrainian research center for physical sciences.

THE IPP MAIN TASKS

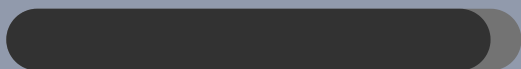
Thermonuclear Research (Theory and Experiment)

Some aspects of the ITER thermonuclear reactor

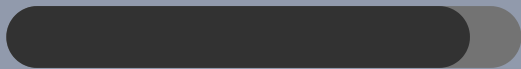
Development and application of powerful pulsed and quasistationary plasma accelerator
Plasma technologies

SKILLS AND EXPERTISE*

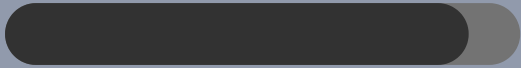
Plasma wall interaction



Plasma diagnostics



Plasma heating



Skill scale

*The skill scale is from
Fundamental Awareness (min) to Expert (max)

IPP RESEARCH AREAS RELEVANT TO EURATOM

FUSION RESEARCH AND DEVELOPMENT

STELLARATORS

PLASMA WALL INTERACTION

PLASMA THEORY

IPP KEY PERSONS

DR.IGOR GARKUSHA

KIPT DEPUTY DIRECTOR GENERAL IN SCIENCE,
DIRECTOR OF KIPT INSTITUTE OF PLASMA PHYSICS,
MEMBER OF JOINT PROGRAMME COMMITTEE UKRAINE - EURATOM FOR FUSION

DR.VADIM MAKHLAY

HEAD OF KIPT RESEARCH LAB,
PLASMA WALL INTERACTION RESEARCH

DR.VOLODYMYR MOISEENKO & DR.MYKOLA DREVAL

HEAD & DEPUTY HEAD OF KIPT RESEARCH LAB,
STELLARATOR RESEARCH

IPP FACILITIES FOR FISSION & FUSION RESEARCH

PLASMA ACCELERATORS (QSPA M, QSPA KH50)

STELLARATORS URAGAN - 2M, URAGAN -3M

PLASMA MACHINES FOR SURFACE MODIFICATION

EURATOM RELEVANT PUBLICATIONS

ENHANCED PERFORMANCE IN FUSION PLASMAS THROUGH TURBULENCE SUPPRESSION BY MEGAELECTRONVOLT IONS, NATURE PHYSICS,
DOI: 10.1038/S41567-022-01626-8

APPLICATION OF X-RAY APPROXIMATION METHOD FOR STUDYING THE SUBSTRUCTURE OF SUFFICIENTLY PERFECT SAMPLES. FUNCT. MATER. 2017; 24 (1): 179-183. DOI:HTTPS://DOI.ORG/10.15407/FM24.01.179

GENERATION AND DEVELOPMENT OF DAMAGES IN DOUBLE FORGED TUNGSTEN IN DIFFERENT REGIMES OF IRRADIATION WITH EXTREME HEAT LOADS J. NUCL. MATER. 495 (2017) 91-102 DOI.ORG/10.1016/J.JNUCMAT.2017.07.042

IPP IN EURATOM (H2020 & HORIZON EUROPE)

IMPLEMENTATION OF ACTIVITIES DESCRIBED IN THE ROADMAP TO FUSION DURING HORIZON 2020 THROUGH A JOINT PROGRAMME OF THE MEMBERS OF THE EUROFUSION CONSORTIUM, GA#633053 HORIZON 2020, 2014-2020

IMPLEMENTATION OF ACTIVITIES DESCRIBED IN THE ROADMAP TO FUSION DURING HORIZON EUROPE THROUGH A JOINT PROGRAMME OF THE MEMBERS OF THE EUROFUSION CONSORTIUM, GA#101052200 HORIZON EUROPE, 2021-2025

